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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The Sequences within in ANG4953 32 km ode human tunnous nections to the gradual and the sequences in ANG4995544 encode human interprets in a few points are sequences where one in the production of a fascon protein which conformed to one of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New Lucks problem toward necessary and bomen interleukin lareceptor - users in therapy, diagnosis and assays of e.g. Thoumatoid atthitis, diabetes, cerebrai maintais sepsis, etc.
           1000 P
(2018) (1) of the latest property property property of the latest pr
                                                                                                                                                                                                                                                                                                                         Seq_name. /S1552, j. 1943, a, jr to Seq. qr (5 Seq.), 461 etc. 66. 66, 45.4 etc.
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,*taq= r
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1208, AANSLOSS.
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INF R linker PNF R linker IL ik IL le linker PNF Evlinker-INF R or INF R linker PNF-R

55555**x**8

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diabetes, multiple sclerosis, pulmonary librosis and silicosis, cerebial malaria, allografi and xenografi rejection in graft verses
                                          host disease, sepsis, septic shock, inflammation, allergies and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      134 isTyrTrpSerGluAsnLeuPhcGlnCysPheAsnCysSerLeuCysLeu 150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       551 ACTIGITAAGAAAAGCCTIGGAGTIGGAAGTTIGTGGGTTAGGGGGATTIGAG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              84 ysGluSerGlySerPheThrAlaSerGluAsnHisLeuArqHisCysLeu 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        101 SerCysSerLysCysArqLysGluMet.GlyGlnValGluIleSerSerCy 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sThrValAspArgAspThrValCysClyCysArglysAsnClmTyrArgH 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   151 AsnGlyThrValHisLeuSerCysGlnGluLysGlnAsnThrValCysTh 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rCysHisAlaGlyPhePheLcuArgGluAsnGluCysValSerCysSerA 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AsnValLysGlyThrGluAspSerGlyThrThrValLeuLeuProLeuVa 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       217 IllerhePheClytouCysteuLeuSerfleuFeuPhelleGlytouMetr 234
                                                                                                                                                                                                                                                                                                                                                                                          34 euGlyAspArgGluLysArgAspSerValCysProClnGlyLysTyrlle 50
                                                                                                                                                                                                                                                                                                                                                                       1 Met.GlyLeuSerThrValProAspLeuLeuLeuBroLeuValLeuLeuGl 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                 17 uleuleuValGiyileTyrProSerGiyValileGiyLeuVaiProHisL 34
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Odps: 0
Pervent Identity, 100 000
                                                                                                                                                                                                                                                                                                                                 from: 1 to: 1368
                                                               autoimmune dysfunctions.
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Percent Similarity, 105,000
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US-09-525-999A-2 v AAC49912
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TMFR1; tumbour necrosis factor receptor; polymorphism, human;
tumbour; cancer; apoptosis; bacterial infection; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         417 rieuGluLeuLeuGlyArgValLeuArgAspMetAspLeuLeuGlyCysL 434
                                                                                                                                                                                                        284 lyPheSerProValProSerSerThrPheThrSerSerThrTyrThr 300
                                                                                                                                                                                                                                                                          301 ProGlyAspCysProAsnPheAlaAlaProArgArgGluValAlaProPr 317
                                                                                                                                                                                                                                                                                                                                             317 oTyrGinGlyAlaAspProffeteuAlaThrAlaikuAlaSerAspProf 334
                                                                                                                                      267 uAlabroAsnProSerPheSerProThrProGlyPheThrProThrLeuG 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 seq_name. /STD$2/gcgdata/geneseq/geneseqn/NA2000.DAT:AAA95105
                                                                                                                                                                                                                                                                                            251 SerThrProdluLysGluGlyGluLeuGluGlyGbrThrCbrTysProLe
                                                                                                  751 TCGACACCTGAAAAAGAGGGGGGGGTTTGAAGGAACTACTACTAAGCCCCT
                                                                                                                                                                                                                        %rArqTyrGlaArqTrpLysSerLysLeuTyrSerIleValCysGlyLys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                351 LeuAspThrAspAspProAlaThrLeuTyrAlaValValGluAsnValPr
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the coding sequence of the iNFE) gene. The sequence of the whole gene is juren in AAASSIGS and AAASSIGS, the polymorphisms were identified by amplitying and sequenting realons of the were. Twelve polymorphis loci were discovered, of these twelve polymorphisms, four cause a change in the INFR protein. The INFR polymorphisms may be cause a change in the INFR protein. The INFR polymorphisms may be discipling from the interval polymorphisms of the identifying drugs targeting the protein for treatment of disorders related to its abnormal expression or function such as tumours.

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Polynucleotides comprising polymorphic variants of a reference sequence for tumour necrosis factor receptor 1 (TNFR1), useful for studying the biological function of TNFR1 and identifying drugs targeting the
                                                                                                                                                                                                                                                                                                                                                                                                      Schulz VP, Stephens JC,
Jocation/Qualifiers
                 /product- "INFRI"
                                                                                                              replace(269,T)
                                                                                                  replace(224,T)
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                                             replace(36,G)
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552..625
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769..1057
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STEPHENS J C
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                                                                                                                                                                                                                                                                                                                                                                                        (CHEW/) CHEW A.
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The present invention relates to polymorphic variants of the tumour necrosis factor receptor 1 (INPRI) gene. The present sequence is

protein for treating disorders

Claim 7; Fiq 4; 79pp; English.

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201 CITCHACHACHACHACAGGGGGGGGGGGGAGGATGGGATGGAGGGGGT 250
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    201 AshVaitysClythrClaAspScrCtythrthaVallentcottobrobowa 217 [LiftHillIII] LiftHillIII LiftHillIIII]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                67 rLeuTyrAsnAspCysProdlyProdlyGluAspThrAspCysAigGluC H4
                                                                                                                                                Sequence 1:58 BF: 292 A: 424 C. 756 C. 276 I: 0 other:
                                                                                                                                                                                                                                          Percent Identity: 100,000
                                                                                                                                                                                                                             Gaps:
                                                                                                                                                                                                                                                                                                                     Align sea 1/1 to: AAA95105 trom: 1 to: 1468
                                                                                                                                                                                                                           Ratio: 5.466
Percent Similarity: 100.009
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US=09-525-998A 2 x AAA951US
                                                                                                                                                                                                alignment_scores:
888888888888
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/note- "encodes the extracellular domain of human

a

/*t.ag-

242..751

TNF alpha receptor"

90GB-0013410 90GB-0013410

/*tag= d /mofe= "bomologous to probe AAQ20974"

ocation/Qualifiers

/*tag- b 275...1522

532

/*tag-

274

/*tag-

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The sequence is that of DNA encoding tombour necrosis factor alpha binding protein which was obtd. from a human placental cDNA library in lambda gill using a probe (AAQ20974). The DNA also encodes the extracellular domain of human TNF alpha receptor and as such it is
     Tumour necrosis factor alpha, autoimmane diseases, cachectin; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New tumour necrosis factor alpha binding protein and polypeptide - useful in treating cachexia, sepsis and auto immune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       useful for treating diseases where TNF alpha is involved as a causative agent, e.g. cachexia, sepsis and autoimmune diseases, specifically rheumatoid arthritis. See also AAQ20974.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Feldman M, Gray P, Turner M, Brennan F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Fig 1; 25pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          e.g. rheumatoid arthritis
                    extracellular domain.
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                                                      Homo sapiens.
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                                217 lilePhePheGlyLeuCysLeuLeuSerLeuLeuPhelleGlyLeuMetT 234
                                                                                                                                                                                               751 TCGACACCTGAAAAAGAGGGGGGGGTTTGAAGGAACTACTACTAAGGCCCCT 800
                                                                                                                                                                                                                                                                                                                                                             301 ProGlyAspCysProAsnPheAlaAlaProArgArgGluValAlaProPr 317
                                                                                                                                                                                                                                                                                                                                                                                                                            317 oTyrGlnGlyAlaAspProlleLeuAlaThrAlaLeuAlaSerAspProl 334
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      367 oProLeuArgTrpLysGluPheValArgArgLeuGlyLeuSerAspHisG 384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     401 TyrserMetLeuAlaThrTrpArqArqArqThrFroArqArqGluAlaTh 417
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    434 euGluAspileGluGluAlaReuCysGlyProAlaA!aLeuProProAla 450
                                                                                                                                                               251 SerobiProGluTysGluClyGluLevGluClyThrThrThrThrTysProTe 267
                                                                                                                                                                                                                            267 wAlaProAsnProSerPheSerProThrProGlyPheThrProThrLeuG 284
                                                                                                                                                                                                                                                                                             284 !TPheSerProValPreSerSerThrPheThrSerSerSerThrTyrThr 300
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                                                                                                                                                                                                                                                                                                                                                                               AAQ20973 standard; DNA; 2062 BP
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34 euGlyAspArqGluLysArqAspSerValCysProGlnGlyLysTyrIle 50
                                                                                                                                                                                                                                           1 MetGl;LeaSerThrValProAspLeuLeuLeuProLeuValLeuLeuGl 17
Sequence 2062 BP; 429 A; 616 C; 573 G, 444 P; 0 other;
                                                                                                             Percent Identity: 100.000
                                                                                                                                                                                                      Align seg 1/1 to: AAQ20973 from: 1 to: 2062
                                                                    Quality: 2487.00
Ratio: 5.466
Percent Similarity: 100.000
                                                                                                                                               alignment_block:
US-09-525-998A-2 x AAQ20973
                                                        alignment_scores:
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INF-alpha binding protein gene. 11-MAY-1992 (lirst entry)

AAQ20973;

XUXEXXXX

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1055 CCCGGT-ACTGTCCCAACITIGC-93CTCCCCGCAGAGAGTGGCACACACCAC 1104
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           134 isTyrTrpSerGluAsnLeuPheGlnCysPheAsnCysSerLeuCysLeu 150
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51 HisProGluAsnAsnSerlieCysCysThrLysCysHisLysGlyThrTy 67
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                                                                                                                                                                                      67 rLeuTyrAsnAspCysProGlyProGlyClnAspThrAspCysArgGluC
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334 leProAsnProLeuGlnLysTrpGluAspSerAlaHisLysProGlnSer

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tumour secrecic ideter alpha, extracellular binding domain;
treatment, publicary diseases, septic abook, BIV intertion; AIDS;
malaria, viral mediapits, abot versus host disease;
autoimmune disease; rheumatoid arthritis.
                                                                                                                                                                                                                           401 TyrSerMetieualaThrirpArgArgArgIhrProArgArgGualaTh 417
                                                                                                                                                                                                                                                                                                                        Seq_hallies [1571.52] to distract may be observe, the Shighten
                                                        1205 CTAGACACTGATGACCCCGCGCCCTGTACGCCGTGGTGGAGAACGTGCC
                                                                                          384 lulleAspArdLeuGluLeuGlnAsnGlyArqCysLeuArqGluAlaGln
                                             367 oProLeuAraTrpLysGluPheValArqArgLeuGlyLeuSerAspHisG
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1265..1267
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7°6..1517
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156..274
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CHAR-) CHARING CROSS SUNLEY RES CENT.

Bronnan FM, Feldmann M, Gray PW, Turner MJC;

WP1: 1992-167156/20.

P-PSDB; AAR24000.

New polypeptide capable of binding human TNE alpha - comprises first three cysteine-rich subdomains of INF alpha receptor for treating autoimmune disease, septic shock, HiV etc.

Claim 4: Fig 1: 43pp; English.

This sequence encodes human TNE alpha 55kD receptor. A placenta connatuse pagner purified and cona size determined by PAGE against an Eco Hanger purified and cona size determined by PAGE against an INF alpha in attended plage ENA. The inserts of two scNa clouss were then sequenced The coding region of the majority of the human TNE-alpha 55kD receptor was isolated as an Ecokl Iraqment encoding 374 amino sequenced massisolated as an Ecokl Iraqment encoding 374 amino acids, and cloned into a massallash coll Explession vector, resulting in priNFK. A derivative of the TNE alpha receptor was produced by confined in a termination codom just prior to the transmentance of engineering a termination codom just prior to the transmentance. The TNE-alpha inceptor expression plasmids were then transferred massalland monkey COS-7 cells.

Sequence 206:7 ECI SAPE 1997 FIRE 1972 9, 443 T, 0 other;
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Align seq 1/1 to: AA024440 from: 1 to: 2062

 1465 GEFGGARTEPTERFELLERFELLERFELLERFELLERFELLERFERFARESTATERFELLERFELLERFELLERFERFELLERFELLERFELLERFELLERFERFE 1105 CTATCAGGGGGGGGACCCTAGGGACAGCCCTCGGCCCCCA 1154 1155 TCCCCAACCCCCTTCAGAAGTGGGAGGACAGTGCCCACAAGCCACAGAGC 1204 284 lyPheSerProValProSerSerThrPheThrSerSerThrTyrThr 300 317 offyrcinclyAlaAspProlleLeuAlaThrAla.kuAlaSerAspProl 334 334 leProAsnProLeuGlnLysTrpGluAspSerAlaHisLysProGlnSer 350 351 LeuAspThrAspAspProAlaThrLeuTyrAlaValValGluAsnValPr 367 384 lulleAspArqLeuGluLeuGlnAsnGlyArgCysLeuArqGluAlaGln 400 isTyrTrpSerGluAsnLeuPheGlnCysPheAsnCysSerLeuCysLeu 150 AsnGlyThrValHisLeuSerCysGlnGluLysGlnAsnThrValCysTh 167 167 rCysHisAlaGlyPheFheLeuArgGluAsnGluCysValSerCysSerA 184 184 sndysLysLysSerLeuGludysThrLysLeuCysLeuProGlnIleGlu 200 201 AsnVallysGlyThrGluAspSerGlyThrThrValLeuLeuProLeuVa 217 217 lilePhePheGlyLeuCysLeuLeuSerLeuLeuPhelleGlyLeuMetr 234 267 uAlaProAsnProSerPheSerProThrProGlyPheThrProThrLenG 284 401 TyrSerMetLeuAlaThrTrpArgArgArgThrProArgGluAlaTh 417 417 rLeuGluLeuLeuGlyArgValLeuArgAspMetAspLeuLeuGlyCysL 434 605 AATHHHADACOTGTGTGTGTGGGAGAAACAGAACACGGTGTGCAC 251 SerThProGloTysSluSlyGloLeadlaslyThrIhrIhrLySProLe 301 ProGlyAspCysProAsnPheAlaAlaProArgArgGluValAlaProPr

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The sequence encodes the entire 30 kD TNF inhibitor. The clone from which the sequence was obtd. Was isolated from a cDNA library
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       which the sequence was obtd. was isolated from a cDNA library prepd. from RNA form U937 cells treated with PMAA/PHA. The whole gene can be inserted into expression vectors for preps. of TNF inhibitor for use in the treatment of inflammatory and dependrative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            lumour necrosis factor inhibitor - for suppression of INF-alpha and -beta, useful as therapoutic agent,
              434 eugluAspileGluGluAlaLeufysGlyProAlaAlaLeuProProAla 450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MetGlyLeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuGl 17
                                                                                                                                                                                                                                                                    30kD TNF inhibitor precursor gene in lambda-gt10-7ctnfbp.
                                                                                                                           seq_name. Sits2/jitdira, proverg aspessegn NAlssi.DAI:AAQIO883
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                                                                                                                                                                                                                                                                                                                                                              Location/Onalifiers
171..1536
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                                                                                                                                                                       AAQ10883 standard; CDNA; 2088 BP.
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Percent Similarity: 100.000
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Quality: 2487.00
Ratio: 5.466
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17 ofecteuValGlyffelyrProSerClyValffeGlyteuValProHist 34

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969 GCCCCAAACTCAATCTCAATCCAATCCAAGCTTCACTTCACTTCAAGTTTAA
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                                                                                                                                                                                                                                                                                    269 TAGGGGACAGGCAGAGAGAGATAGTGTGTGTGGCGAAGGAAAATATATA 318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          84 ysGluSerGlySerPheThrAlaSerGluAcsHisLeuAngHisCysLeu 100
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                                                                                                                                                                        34 euGlyAspAraSlub;sArqAspSerValCysProGluGlyEpsTyrlle 50
                                                                                                                                                                                                                                                                                                                                                                                                51 HisProGlaAsiAsiSerileCysCysthitySCysHistySGlythrly 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              67 ruckiyrAshAspCysProfilyProfilyGlnAspthrAspCysArdGluC 84
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            319 CACCCTCAAAATAATTCGATTTGCTGTACCAAGTGCCACAAAAGGAACCTA
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Novel 30 kPa tumor necrosis factor inhibitor analog comprising a
non-native cysteine residue cross linked with polyethylene glycol,
useful for treating inflammatory and degenerative diseases mediated by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TNF inhibitor; antiinflammatory; Tumour Mecrosis Factor, interleukin,
IL-1; inflammatory disease; degenerative disease; human; ss.
                                           269 CCCGTTCCCCT-05AAGSAATTCCTCGCCCCAAGGCCTAAGCCTCGACCACCACG 1318
                                                                                                                                                                                                                 1119 CTATCAGGGGGTGACGCGATCCTTGCGACAGGCCTCGGCCTGGGACGCCA 1168
                                                                                   351 LeuAspThrAspAspProAlaThrieuTytAlaValValGluAsnValPr 367
                            434 leProAsnProfeuGlnLysTrpGluAspSerAlaHisLysProSluSer 350
                                                                                                                                                                                                  384 luIleAspArgLeuGluLeuGlnAsnGlyArgCysLeuArgGluAlaGln 400
                                                                                                                                                                                                                                                       401 TyrSerMetLeuAlaThrTrpArgArgArgThrProArgArgGluAlaTh 417
                                                                                                                                                                                                                                                                                                                417 rLeuGluLeuLeuGlyArgValLeuArgAspMetAspLeuLeuGlyCysL 434
                                                                                                                                                                                                                                                                                                                                                                       434 euGluAspIleGluGluAlaLeuCysGlyProAlaAlaLeuProProAla 450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Seq_name: /SIDS2/gradata/appropry/appropry/NAz001.DAT:AAC83946
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                                                                                                                                           367 OProLeuArgTrpLysGluPheValArgArgTeuGlyLeuSerAspHisG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human 30 KDa INF inhibitor precutsor coding sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vanderslice EW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HOMO Sapiens
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The present invention relates to Tumour Necrosis Factor (TNF) inhibitors (see ABM3765 and ABM37685), which have TNF inhibitory activity. The novel TNF inhibitors of the present invention are useful as therapoutic agents for inhibiting the activity of TNF and interfluekin (LL-1), and Lor treating inflammatory and degenerating disasses mediated by TNF. The present sequence is the coding sequence for the presents of 30 kDs tNF inhibitor. The alpha.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   169 APGSSCHOTO NOSTROCTSAC SESTENCE CONSERVATOR 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    117 SThtValAspArgAspThtValCysClyCysArglySAsnGloffytArgH 134
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            101 SerCysSerLysCysArgLysGluMetGlyGlnValGluIleSerSerCy 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       469 AGCINCTOCAAATOCHAAAAGAAATGGGGTCAGGTGGAATCTCTTG 518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               519 CACACHGGACCGGGACACCTGTGGCTGCAGGAAGAACCAGTACCGGC 568
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MetClyneuSerThrValProAspheuLeuneuProheuValheuGl 17
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                                                                                                                                                                                                                                                                                                                                                               Percent Identify: 100 000
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                                                                                                                                                                                                                                                                                                                         Length:
                                                                                                                                                                                                                                                                                                                                                   Caps:
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Example 6; Fig 21; 82pp; English
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Percent Similarity: 100 000
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Ratio: 5.466
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US-09-525-998A-2 x AAC83946
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Human tumbout necrosis lactor binding profein JONA

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969 GGCCCCAAAACCAAAATTCAATTCAAGATTCAACOCAAOOTGG 1018
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201 AseValLysGlyThrGlwAcpSerGlyThrThrValLeaLeaFroLeuVa 217
                                                                234 yrAngTyrClnAngTrpLysScrLysLeuTyrScrlleValCysClyLys 250
                                                                                                                                                                   869 ATCGCTAPCAAPCGTGGAAGTPPAAGTPTAPTPPATTGTTGGGAAA 918
                                                                                                                                                                                                                                                                                                                                       284 lytheSerProValProSerSerThrPheThrSerSerSerThrTyrThr 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               351 LeuAspThrAspAspProAlaThrLeuTyrAlaValValGluAsnValPr
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anti inflammatory and antimalarial artivity. (1) and (ia) are used (i) to treat diseases in which INF is involved (e.g. sepric shock, antoimmune quomerulonophitis, cerebral malaria, immune responses and inflammation). (ii) to purily INF, (iii) to identity in (anti-promists and (iv) for diagnostic determination of INF in body it aids. Antibodies raised against (I) are used for affinity purification of (I). This sequence encodes a tumour newrosis factor binding protein described in the method of
                                             Turmour neviosis ractor binding protein: INE: insoluble protein: agonist; anti-inflammationy; antimalarial; treatment: septic shock; inflammation; autoimmune glomerulonephritis; cerebral malaria; immune tesponse, antaqonist; diaquosis; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention describes novel homogeneous (asoluble proceins (1), their (10)soluble trapments (1a) and their calls that can bind tumous necrosis factor (TNP). The products of the invention have
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New insoluble profeins, and tranments, that bind to tunnor necrosis
Lactor, used to treat e.g. septic shock or cerebral malaria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Loetscher
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17 BEGBEGVANGLYDE LYPPEGFGLYVALLEG, YLGGVALGHIST HILLE HILLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MetGlyLeuSerThrValProAspLeuLeuEntEuValLeuLeuGl
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                                                                                                                                                                                                                                                                                                                                                                                               _roduct- "INF binding protein"
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187..1554
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274..1551
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Quality: 2487.00
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                                                                                                                                                                                                                                    Homo sapiens
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- 34 euGlyAspArqGluLysArqAspSerValCysProGluGlyLysTyrIle
- 51 HisProGlaAsaAsaSerIleCysCysThrLysCysHisLysGlyThrTy
 - 67 rtoufyrAsnAsp@ysPr@GlyPtroGlyGlnAsp@hrAsp@ysArgGluC 84
- 84 ysGluSerGlySerPheThrAlaSerGluAsnHisLeuArqHisCysLeu 100
- SerCysSerLysCysArqLysGluMetGlyGlnValGluIleSerSerCy 117 487 AGCTGCTCCAAATGCCGAAAAGAAATGGGTCAGTGCAAATCTTGTTG 536 101
 - 117 sthrValAspArgAspThrValCysGlyCysArglysAsnGlnTyrArgH 134
- 134 isTyrTrpSerGluAsnLeuPheGlnCysPheAsnCysSerLeuCysLeu 150
- 151 AsnGlyThrValHisLeuSerCysGlnGluLysGlnAsnThrValCysTh 167
- rCysHisAlaGlyPhePeLeuArgGluAsnGluCysValSerCysSerA 184 687 CTGCCATGCAGGTTTCTTTCTAAGAGAAAAAACGAGTGTGTCTCTCTGTAGTA 736 167
- snCysLysLysSerLeuGluCysThrLysLeuCysLeuProGlnIleGlu 200 184
- 201 AsnValLysGlyThrGluAspSerGlyThrThrValLeuLeuProLeuVa 217
- 217 illePhePheGlyLeuCysLeuLeuSerLeuLeuPhelleGlyLeuMetf 234
 - 837 CATTITCTITGGICTITGCCTTTTATCCCTCCTCCTTCATGGI 886
- 234 yrArqTyrGlnArqTrpLysSerLysLeuTyrSerIleValCysGlyLys 250 887 ATCCCTACCAACCCTGGAAGTCCAAGCTCTACTCCATTGTTGTGGGAAA 936
- 251 SerThrProGluLysGluGlyGluLeuGluGlyThrThrThrLysProLe
- HILLITHTHILLITHTHILLITHTHILLITHTHILLITHTHILLITHTHILLITHHIL
- 987 GGCCCCAAACCCAAGCTTCAGTCCCAGTCCAGGCTTCACCCCCACCCTGG 1036 uAlaProAsnProSerPheSerProThrProChrLeuG
- 284 lyPheSerProValProSerSerThrPheThrSerSerSerThrTyrThr 300
- 037 GCTICAGIGCCGGGGGCCAGTIGCACCTICACCTICACCTAGAGGTATACC 1086
- 1087 CCCGGTGACTGTCCCAACTTTGCGGGTCCCCGGAGAGGGGGGCACACC 1136 301 ProGlyAspCysProAsnPheAlaAlaProArgArgGluValAlaProPr 317

- 334 leProAsnProLeuGlnLysTrpGluAspSerAlaHisLysProGlnSer
- 351 LeuAspiihrAspAspProAlaThrLeuTyrAlaValValGluAsnValPr 367
- 384 luIleAspArgLeuGluLeuGlnAsnGlyArgCysLeuArgGluAlaGln 400
- 401 TyrSerMetLeuAlaThrTrpArgArgArgThrProArgArgGluAlaTh 417
- - 417 rLeuGluLeuLeuGlyArgValLeuArgAspMetAspLeuLeuGlyCysl. 434

- 451 ProSerLeuLeuArg 455
 - 1537 CCCAGTCTTCTCAGA 1551

seq_name. /SIDS2/gcgdata/qcncscq/gcncscqn/NA2000.DAT.AA848475

seq_documentation_block:
ID AAZ48475 standard; DNA; 2161 BP

AAZ48475;

31-MAR-2000 (first cutry)

Human tumour necrosis factor receptor (INFRI) nucleotide sequence

Pumour necrosis factor receptor Lype 1: TNFR1; antisense; intection; inflammation; tumour formation; TNFR1; anticancer; ds.

Homo sapiens

US6007995-A.

28-DEC-1999

98US-0106038 26-JUN-1998; 4811S-01]014B 26-JUN-1498;

(ISIS-) ISIS PHARM INC

Baker BF, Cowsert LM;

WPI; 2000-105333/09.

diagnosis, treatment and prevention of disease, particularly tunnors Antisense inhibition of tumor necrosis factor type 1 expression for

Example 10; Columns 33-36; 34pp; English.

necrosis factor receptor type 1 (TNPR1) ENA. These antisense compounds can be used in a method of inhibiting the expression of INFR1 human cells or tissues. The antisense compounds specifically hybridize with one or more nucleic acids encoding TNPR1 modulating the tanction of nucleic acid molecules encoding TNPR1, ultimately modulating the amount of INFR1 The invention provides antisense compounds targeted to human tumour

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produced. The antischar compounds and method are useful as research
                   reagents and diagnostics, and in the treatment and prophylaxis of
infection, inflammation of tumber formation. The present sequence
represents the nucleotide sequence of human INFRI (GenBank Accn No:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   51 HisProCinAshAshSerileCysCysThriysCysHisLysClyThrTy 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          34 euGlyAspArgGluLysArgAspSerValCysProGinGlyLysTyrlle 50
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                                                                                                                                      Sequence 2151 BP, 459 A, 642 C, 604 G, 456 T, 0 other;
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   E X E X M M M X
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Homo sapiens

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Expression of this receptor is regulated by shedding of the extracellular receptor fragment. The p55 TNF-R can be shed in response to different inducing agents, e.g. photobol myristate acetate (PMA). Adepending on cell type. The only tevino of the receptor whose structure affects the shedding response is the spacer region (see AAR75012) in the extracellular domain. This region is located close to a site of chavage of the molecule, and links the region is located close to a site of chavage continers between human p55 TNF-R and murine epidermal growth factor chimeras between human p55 TNF-R and murine epidermal growth factor creeptor (EGF-R) that are represented by AAR75007-11. This spacer region was subjected to deletion mutations (AAR75012-25) and substitutions (AAR7502-47). Of the spacer region, the most important of those. The shedding of the trivipour is independent of the side chain identity of these residues, with the exception of a limited dependence on the identity of value.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        conformation of the profein adversely effect the shedding process. The mutations shown in AAR75013 47 were introduced in order to create an inhibitor of a protease that is capable of cleaving the soluble TNP-R from the cell bound TNF E. Framents of these inhibitors can be seen in AAR75017-9, AAR75025, AAR75033-5 and AAR75042-3. These protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This sequence represents human p55 tumour necrosis factor (TNF-R) DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New protease capable of cieaving soluble lumour mecrosis fartor (TNF) receptor - from cell-bound TNF receptor, useful for antagonising deleterious effects of TNF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 2175 RP: 474 A: 642 C: 603 G; 456 T; O other;
                                                                                                                                                                                                                                                                                                                                                                                 Batkin M, Brakebusch C, Varfolomeev E, Wallach D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inhibitors can be used for enhancing INF function.
                                                                                                                     /note- "possible poly-A signal"
                                                       /product - p55 TNF-R
2143..2149
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Fig 1, 40pp; English.
                                                                                                                                                                                                                                                                                                                                       (YEDA ) YEDA RES & DEV CO LID
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                                                                                                                                                                                                                                                                                               12-OCT-1993;
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Align seq 1/1 to: AAQ90513 from: 1 to: 2175

- 17 uLeuLeuValGlylleTyrProSerGlyVallleGlyLeuValProHisL 34

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                                                                                                                                                                    34 euGlyAspArgGluLysArgAspScrValCysProClnClyLysTyrile 50
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                                                                                                                                                                                                                                                                                                                                                                                              51 HisProGlnAsnAsnSerIleCysCysThrLysCysHisLysGlyThrTy 67
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Lesslauer W, Lotscher H;
38.4
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                                                                                                                                                                   367 OProtecuArgTrptysCluPheValArgArgLeuClyLeuSerAspHisG
                                                                                                   351 LeuAspIhrAspAspProAlaThrLeuTyrAlaValValGluAsnValPr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Encodes human 55kD INF-binding protein
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89CH-0003319.
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Partial animo anil sequences were determined for the ST and 75kb TNF-BBS (see AAR1072-R11081) and oliqonucied ide primers were synthesised based an those partial sequences. The primers were used to produce a class fragment for use as apoche to serven a human placental cida kark constructed in lambda 11%; positive clones were identified and sequenced. DNA constructs comprising the TNF-BP coding sequence may also contain a fragment errolling a human in domain. Recombinant constructs are used to transform relis to conter
Insoluble turbur newrosis tablet binding profess. and {\rm DNA} encoding them, useful in pharmaceutical poloss, and for antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 17 | SEBAYA | ASPAT GASPINOVA | OPEN GEORGE | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 
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                                                                                                                                                                                  Claim 4; Fig 1: 25pp: German
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US-09-525-99B&-2 x AAw10955
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TNF; timpour necrosis factor, receptor, discase; autoimmunity; rheumatoid arthritis; graft rejection; graft vs. host; septic shock;

effector protein, ss

Homo sapiens.

p55 lumour necrosis factor receptor coding sequence.

13-MAY-1994 (Lirst entry)

AAQ50870;

/product# p55 Tumour necrosis lactor receptor.

Location∕oualifiers

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1337 AGATCGATCGCTGCTGCAGAACGCGCCCCTGCCTGCCCGAGGCGCAA 1386
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        367 OProLeuArgTrpLysGluPheValArgArgLeuGlyLeuSerAspHisG 384
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184 snCystystysSerieudluCysThrigsLeuCysLegProGinileGlu 200
                  201 AsbVallysClyThrGluAspScrClyThrThrValLcuLcuProlcuVa 217
                                                                                                                                                         217 lilePhePheGlyLeuCysLeuLeuSerLeuLeuTheileGlyLeuMetT 234
                                                                                                                                                                            234 yrArgfyrdiaArgfrpfysSertysteufyrSertieValGysGlytys 250
                                                                                                                                                                                                                                                           SerthrProGlutysgluClyGlutouCluClyThrThrThrtysProLo 267
                                                                                                                                                                                                                                                                                                                                                        937 TCGACACCTGAAAAAGGGGGGGGGGCTTGAAGGAACTACTACTAAGGCCCTT 986
                                                                                                                                                                                                                                                                                                                                                                                             267 uAlaProAsaProSerPheSerProThrProGlyPheThrProThrLeuG 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    317 ofyrGlnGlyAlaAspProlleLeuAlaThrAlaLeuAlaSerAspProl 334
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       45) ProSerLeuieuArg 455
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Modification of the tumour necrosis factor receptor by mutation or deletion modulates signal transduction and/or cleavage effected by the receptor. This modulation of activity and also be achieved using effector proteins which interact with the TNF receptor. Molecules which interact with the TNF receptor or the effector proteins can be used to treat or prevent diseases associated with TNF activity equationimum disease; rheumatoid arthritis; grall rejection, graft vs. host disease or septic shock. They can also be used to treat overdoses of exogenous TNF.

Sequence 2170 BP; 474 A; 657 C; 584 G; 455 T; 0 other;

Length: 455 Caps: 0 Percent Identity: 99.560

> Percent Similarity: 100.000 alignment_block: US-09-525-998A-2 x AAQ50870

Quality: 2478.00

alignment_scores:

5.446

Ratio:

Modulating activity of tumour necrosis factor receptor - using peptide(s), antibodies, etc. which interact with critical regions of receptor of effector protein, for controlling auto immune

(YEDA) YEDA RES & DEV CO LID.

Brakebusch C, Wallach D;

WPI; 1993-353057/45. P-PSDB; AAR42197.

93EP-0106981. 921L-0101769.

29-APR-1993; 03-MAY-1992;

EP568925-A. 10-NOV-1993 Claim 2; Figure 1; 17pp; English.

disease, septic shock, etc.

SICS, and dark appropriate percentage of NATORS of

1537 GCCAGTCTTCTCAGA 1551

AAQ50870 standard; DNA; 2170 BP

seq_documentation_block

Align seg 1/1 to: AAQ50870 from: 1 to: 2170

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356 TAGGGGACAGGGAGAAGAGAGATAGTGTGTGCGCCAAGGAAAATATATC 405
                                                                        106 CACCCTCAAAAIAATTGGATTTGCTGCGAAGTGCCACAAAGGAACCTA 455
                                                                                                                                                                              84 ysGluSerGlySerPhelhralaSerGluAsnHisLeuArgHisCysLeu 100
                                                                                                                                                                                                                                                   10] SerOysSerigsOysArqiyeClaMetClyClavalClarJeSerSerCy 117
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                                                                                                                                                                                                                                                                                                                           sThrValAspArqAspThrValCysGlyCysArqLysAsnGlnTyrArqH 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        151 AsnGlyThrValHisLeuSerCysGlnGluLysGlnAsnThrValCysTh 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                167 rCysHisAlaGlyPhePheLeuArgGluAsnGluCysValSerCysSerA 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               217 lllePhePheGlyLeuCysLeuLeuSerLeuLeuPhelleGlyLeuMetT 234
                                    51 HisproGlaAsnAsnScrileCysCysThriysCysHislysGlyThriy 67
                                                                                                                           rLeuIyrAsaAspCysProdlyProdlySlaAspThrAspCysArgGluC
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raINF-R8 (AAGS6284) was used to screen the HS91st ofnA library
LambdaINF-P2 conded the purport turns. INF E2 unit was used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             umour neerosis factor binding protein; INF 86; INF-receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FAX encoding TNF binding protein and INF reservor 1 used in tumour treatment and to understand mechanismsm to INF action
                434 engluAspileGluGluAlaLeuCysGlyProAlaAlaLeuProProAla 450
                                                                                                                    384 InfleasparationGinLonGinAsriClyArgCyst.coAraCloAlaGlb 400
                                                                                                                                                                              401 TyrSerMelLeuAlaThrTrpArqArqArqThrProAraArusluAlaTh 417
                                                                                                                                                                                                                                           417 rLeuGluLeuLeuGlyAraValLeuAraAspMetAspLeuLeuslyCvsL 444
                                                                                                                                                                                                                                                                                                                                                                                                                             SBC10_ANN 131 or 138 pg or or or personal property of the CSTIV is another
                                                                           367 OProLeuArqIrph, 301 of heValArqArdIeu01, heuSerAspHiso
351 LeuAspIhrAspAspProAlaIhrLeuTyrAlaValValGiuAsuValPr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Fig 91(1:2); 51pp; German.
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2:8..:577
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8958-3913101.
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CONSILECT a plasmid (PADTNE-R) expressing the product the same way as pADTNE-RP (see AAQ06282). See also AAQ06282-Q06285.
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                                                                                                                                                                                                                                                         Sequence 2141 BP; 455 A; 633 C; 593 G: 460 T: 0 other;
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Carsent identify 49 121
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US-09-525 998A-2 x AAQ06285
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                                                                                      913 ATCGCTACCAACGGTGGAAGTGCAAGCTGTAGTGCATTGTTGTGGGAAA 962
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                                                                                                                                                                                                                                                                                                                                                 267 uAlaProAshProScribteScrPreThrProGlyPheThrProGhrhoud
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 317 OffyrGinGlyAlaAspProfleteuAlaThrAlaLeuAlaSerAspProf
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               284 lyPheSerProValProSerSerThrPheThrSerSerSerThrTyrThr
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The lumour Necrosis Factor Binding Protein I is the soluble form of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Recombinant tumour nectors factor binding protein i prope by transfecting enkaryotic cells with vector contg. deoxytibouncheic acid encoding human type I INF receptor or soluble domain
                                                                                                     /label- soluble_domain
/note. "may be 2 codons shorter or a few codons
longer."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          of the cDNA. The sequence Arraa (tag m) may serve as an alternative to this signal, but with low efficiency. See also AAQ12212-15.
/*tag- a
/sote- "in-frame termination codon"
                                                                                                                                                                                                         /*tag= q
/note: "IBP-1 derived sequence"
                                                                                                                                               /*tag= e
/note= "IBP-1 derived sequence"
                                                                                                                                                                             /product= type I TNF receptor
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385. 504
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (YEDA ) YEDA RES & DEV CO LID.
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                                                      /*tag- b
319..1620
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                  256..1620
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/*tag= }
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                                                                                                                                      misc_feature
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                                                sig_peptide
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                                                                  mat_peptide
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                                                                                      misc_RNA
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117 sThrValAspArgAspThrValCysGlyCysArgLysAsuGlulyrArgH 134
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       234 prArgipsClaArg rphysocripsteniprSeriteValSpsSipigs 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      84 ysGluSerGlySetPhelhrAlaSerGluAshHisLeuArqHisCysLeu 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     101 SerCysSorLysCysAraLysGluMet@lyGluValGluIleSerSerCy 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    151 AsudlyThuValHisteuSerCysGluGluLysGluAsuThrValCysTh 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HITTITIETET FILTETTIETET BAGEGOAAGAAG EGIG SELETTIETET FILTETTIETET FOR STATION SELETTIETET FILTETTIETET FOR SELETTIETET FILTETTIETET FOR SELETTIETET FILTETTIETET FOR SELETTIETET FILTETTIETET FILTETTIETET FOR SELETTIETET FILTETTIETET FILTETTE FILTETTIETET FILTETTIETET FILTETTIETET FILTETTE FILTETTIETET FILTETTIETET FILTETTE FILTE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 51 HistroGlaAsaAsaSerileCysCysThrLysCysHisLysGlyThrTy 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      67 illeriyrasnaspCysProGlyProGlyGlinaspihraspCysargGluC 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               167 rCyshisAlaOlyPherheLeuArgSluAsnGluCysValScrCysSerA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      34 euGlyAspArqGlulysArqAspSerValCysProGluGlyLysIyrlie
                                                                                                                                      Percent Similarity: 99.560 Percent Identify: 99.560
                                         Length:
                                                                                                                                                                                                                                                                                                                                                                               from. 1 tc. 2176
                                                                                                                                                                                                                                                                                                                                                                               Align seg 1,7 to: AAQ12215
                                         Quality: 2464.00
Ratio: 5.439
                                                                                                                                                                                                                              alignment_block:
US-09-525-998A-2 x AAQ12215
alignment_scores
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251 SeribricolutyepludlyslybeaclastyrhrihrigsFroLe 267

Sequence 2176 NP, 475 A. 644 C. 682 G. 455 T. 0 other.

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Plasmid Tumour Necrosis Factor-Binding Protein 15 cDNA insert.
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                                                                                                                                                                    1056 GOCCOCAAACCCAAOCITCAGICCCACICCAGGCIRCAGCCCCAGCGICG 1105
                                                                                                                                         .106 GCTTCAGICCCGTGCCCAGIICCACCIICACCICCAGCICCAGCIAIAGC 1155
                                                                                                                                                                                                                                                                                                               284 TypheSerProValProSerSerThrPheThrSerSerSerThrTyrThr 300
                                                                                                                                                                                                                                                                                               334 leproAsnProLeuGlnLysTrpGluAspSerAlaHisLysProGlnSer 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  384 TulleAspargrenGintenGinAsi@!yArg@yst@nArg@!vAlaGle 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                401 TyrSerMetLeuAlaThrTrpArgArgArgThrProArgArgGluAlaTh 417
                                             267 uAlaProAsnProSorPboSorProThrProGlyPboThrProThrLoug 284
                                                                                                                                                                                                                                  317 oTyrolnGlyAluAspPtoIleLeuAluThtAluLeuAluSerAspFroI 334
                                                                                                                                                                                                                                                                                                                                                                                                                    367 oProLeuArgTrpLysGluPheValArgArgLeuGlyLeuSerAspHisG 384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          417 rLeugluleufeuglyArqValLeuArgAspMetAspLeuLeuGlyCysL 434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Seq_name: /SIUS2/gegdata/geneseq/geneseqn/NA1990 DAI-AAgus282
                                                                                                                          Location/Oualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ06282 standard; DNA; 1334 BP
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/product-tNF-PP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pTNF-BP15; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiems.
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The resulting 0.75 kb DNA fragment was inserted into pTZ/T3 alpha-19 (BRL) cut with the same enzymes to recover pTNF-BP. This was cut with BamH1 and EcoR1, and the recovered fragment inserted into
                                                                                                                                                                                                                                                                                                                                                         pTNF-BP15 is one of 30 positives clones in a screened cDNA library from induced TNF-induced fibrosarcoma cells. A TNF-BP had been isolated from the urine of patients with uraemia and probes/primers
                                                                                                                                                                                                                                                                                                                                                                                                          were constructed from the determined amino acid sequence. To produce a vector expressing a soluble form of TMF-binding protein, this plasmid was cut with Xmmi, amplified by PCK and the amplified bnA cut with BamHI and EcoRT.
                                                                                                                                                                                                                                                                 DNA encoding INF binding protein and INF: receptor - used in
tumour treatment and to understand mechanismsm to INF action
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pAD-CMVI (AAQ06283) to give the required plasmid pabrin-BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    213 ATGGGCCTCTCCACCGTGCCTGACCTGCTGCTGCCACCTGCTGCTGCTGCTGCTGCTGG 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              313 INGGGGACAGGGAGAGAGAGAGAINGIGIGIGIGIGCCCAAGGAAAIAIAIC 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               84 ysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgHisCysLeu 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 463 GIGAGAGGGGTGCIICACGGCIICAGAAAACGACCICAGACACIGCCIC 512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            34 euClyAspArgGluLysArgAspSerValCysProGlnClyLysTyrile 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MetGlyLeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuGl 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1334 RP; 299 A; 499 C; 342 S; 284 T; 0 other;
                                                                                                                                                                            Hauptmann R, Himmler A, Maurer-Fogy I, Stratowa C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Identity: 100.000
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                                                                                                                                          (BOEH ) BOEHRINGER INGELHEIMINT
                                                 90PP 0106624.
                                                                                                      89DE-3913101.
                                                                                   89DE-3920282
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Percent Similarity: 100.000
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Ratio: 5.532
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US-09-525-998A-2 x AAQ06282
                                                                                                                                                                                                              WPI; 1990-321987/43.
                                                                                                                                                                                                                                 P-PSDB; AAR07449
                                                                                                      21-APR-1989;
                                               06-APP 1990;
                                                                                 21-JUN-1989;
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             24-0CT-1990
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Tumour necrosic factor binding protein, INT SE. INF-receptor;

raINF-RB; ss.

Rat rattus.

Leration/Qualitiers 245..1627 /product-rat INF RB

-bp1*/

Rat Jumour Mecrosis Partor Receptor 8 conA

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234 grangTyrClnArgTrpLysScrLysLcuTyrScrIleValCysGlyLys 250
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              284 lyPheSerProValProSerSerThrPheThrSerSerSerThrTyrThr 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  317 etyrelegiyalaAspProjjeteuAlathrAlaLeuAlaSerAspProj 334
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     351 LeuAspThrAspAspProAlaThrLeuTyrAlaValValGluAsnValPr 367
117 sThrValAspArgAspThrValCysClyCysArgLysAsnGlnTyrArgH 134
                                                                                                           613 ATTATTGGAĞİGAAAAÇÇTITTCCAÇTÇCTTCAATTGCAGCCTÇTGCCTÇ 662
                                                                                                                                                                                                                           167 rCysHisAlaClyPhePheLeuArgGluAsnGluCysValSerCysSerA 184
                                                                                                                                                                                                                                                                 713 CTGCCATGCAGGITICITICIAAGAAAAAGAAJGTGTGTGTGTAGTA 762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      913 Arcderaceaaeeeredaaerecaadereracreearrerreregeaaa 962
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                                                                       134 istyrirpSerGlaAsakaa?haGtaCysPhaAsaCysSericaCystea
                                                                                                                                                                                                                                                                                                       184 snCystystysGuitauCluCysThiystouCystouPicCluileClu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1313 CCCGTTGCGCTGGAAGGAATIC 1334
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A rat brain cDNA analogue of the HS913T cDNA library from rat glicms cell line CC (ATCC CCL107) is prepared in lambda gill. The isolated clone ratNF-RB is used as probe to isolated the entire human TNF receptor, as represented in AAQU62485, see also AAQ062482-Q06288.

Sequence 2173 BF: 503 A. 642 C. 551 G. 477 1: 0 offler;

Gaps: 4 Percent Identity: 64.459

Ratió: 4.172 Percent Similarity: 81.457

Quality: 1539.50

aliqnment_scores:

Align sea 1/1 to. AAQP6284 iron. 1 to. 2173

998A 2 4 AA_06284

alignment_block: ::g pg.fpf yqaA

Length:

used in

Stratewa

Hauptmann R, Himmler A, Maurer-Fogy I,

WPI: 1990-321987/43. P-PSEB: AAE07450.

(BOEH) BOEHRINGER INGELHEIMINT

89mm-3920282. 89DE-3913161. total professal

JE AIR LIBER 21-JUN-1989; 21-APR-1989;

24-0CI-1990.

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EP393438

tumour treatment and to understand mechanismsm to INF artion

Disclosure; Fiq 8(1-2); 51pp; German.

DNA encoding TNF binding protein and INF- receptor -

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F. Best Clear Assertings control activities and plants and the second activities and the second activities and the second activities and activities activ
                                                                                                                                                                      1 MetGlyLeuserfhrValProAspLeuLeuLeuProLeuBalLeuLeuLeu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  295 ICLIGGLICALOGGGALACACCALICACCGGLICACCGGGAGTIGGLICCLICLG
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AAQ06284 standard; DNA; 2173 BP

seq_documentation_block:

29-JAN-1991 (first entry)

AAQ06284;

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59	SerAlaHisLysProClnSerLæuAspThrAspAspProAlaThrL	~
343 1291	hrAlaLeuAlaSerAspProIJeProAsnProLeuGlnI :::111 GALGCCTCAACCTCTGCCAATGCGGGGGGGTGTTGGGA	
C)		6
27	OArgArqCluValAlaProProTyrClnClyAlaAspProlleLeuA	
310 119 4	CCCATCAGGCCCGTCTTCGGTAGTAGTCGGCAGA	o. 4+
298 1144	hrLeudlyPheSerProValProSerSerThrPheThrs 	282
282 1094	uAlaProAshProSetPheSerProfittredTytheThr 1:::	267
	Serthritoldiggstudigdatatodtotythrthrthrigsiro 	in 5
ഗ ത	yrArqTyrOlaArqTrPLyoSorLysLeuTyrSerIleValCysGlyL OCCGATATCCCCAGGGGCCAGGGTCACTCCATCATTTGTAGG	~ ~
	!!TerherheGlyLoscysLostouSerTouLeutheTleGlyLouMet 	o
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○ <	<pre>sufystystystertouthoysthrtysLentysLenthillIII ::IHIIIIIIIII acrockandaaaatcandaarurardaaagigriddceraccrockagiridd</pre>	ထင် ဇာ
∞ o	rcyshisaladiyPhePheLeuArgGluAshGlucysValSerCysSer ::IIIIIIIII:::	· 9 +
4	AsnGlyThrValHistouSerCysGlnGlutysGlnAsnThrValCy 	in on
150 694	isTyrTrpSeriluasileuthedintystheasnoysserLeidysLei:ill	134 545
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376 rgArgLeuGlyLeuSerAspHisGluIleAspArgLeuGluLeuGluAsn 392

1392		1441
393	393 GlyargCysLouargGlualaGlnTyrSerMctLeualaThrTrpArgar 409	409
1442	1442 Graditterete ette ette ette ette ette ette e	1491
404	409 qarqThrProArqArqGlualaThrLeuGluLeuLeuGlyArqValLeuA 426	426
1492		1541
426	ГĢ	442
1542	1542 GOGACATGAACOTGGCTGGCTGCTGGAGAAACATGCGGGAGACTGTAGAA 1591	1591
443	443 GlyproAla 445	
1592		

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